



DENT AND BUCKLE

User Guide

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1. General Information

1. General Information

General Information section explains in general terms Dent and Buckle and the purpose for which it is intended.

1.1. System Overview

Dent & Buckle Catalog is a convenient and simple solution, suitable for Maintenance, Repair & Overhaul (MRO) companies and airlines. This catalog allows accurately and particularly monitors damages and repairs on the aircraft fuselage. The system allows you to register, save and view damage and the history of their repairs. Specially designed graphics editor in visual form shows the defects location on the fuselage.

Main features:

- Registration of damages on the fuselage
- Registration of defect locations on fuselage drawings
- Recording and tracing of repair work
- Reporting system record
- Reporting system

Advantages:

- Significant reduction of paper work
- Standardization of fuselage damages registration
- Optimization of work through the creation of an electronic archive

1.2. Organization of the Manual

The user's manual consists of four sections: General Information, System Summary and Dent and Buckle and None Routine Card.

General Information section explains in general terms Dent and Buckle and the purpose for which it is intended.

System Summary section provides a general overview of the system. The summary outlines the users of the system's hardware and software requirements, system's configuration, user access levels and system's behavior in case of any contingencies.

Getting Started section explains how to install Dent and Buckle on your computer. The section describes in detail the interface and basic functions of the system.

How To's section contains step-by-step instructions for using the system.

2. System Summary

2. System Summary

System Summary section provides a general overview of the system. The summary outlines the users of the system's hardware and software requirements, system's configuration, user access levels and system's behavior in case of any contingencies.

2.1. System Configuration.

Tool Management System operates on computers with Windows operating system. It is compatible with Windows 7 and higher versions. The application requires connection to database server.

2.2. User Access Levels

Full Access. The user has access to all system functions.

Modify Only. The user has access to updating and changing functions.

Read Only. The user can read previously created data.

2.3. Contingencies

In case of power outage, the data are not saved in the internal memory of the operating device.

3. Getting Started

3. Getting Started

Getting Started section explains how to install Dent and Buckle on your computer. The section describes in detail the interface and basic functions of the system.

3.1. Installing

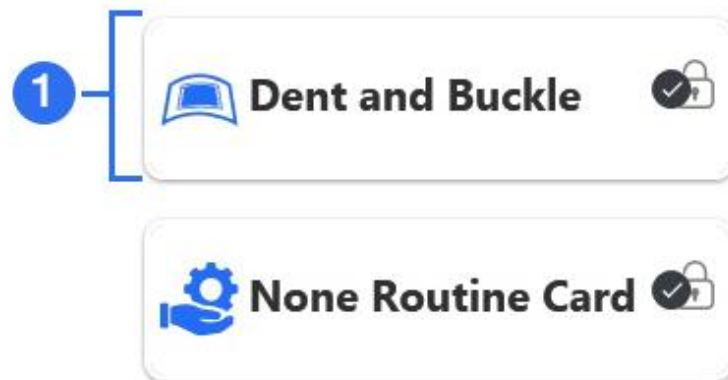
Run .exe file, which should be installed on the device. Follow the instructions of Tool Management System Setup Wizard.

You need to install .NET Framework 4.5 for application operation.

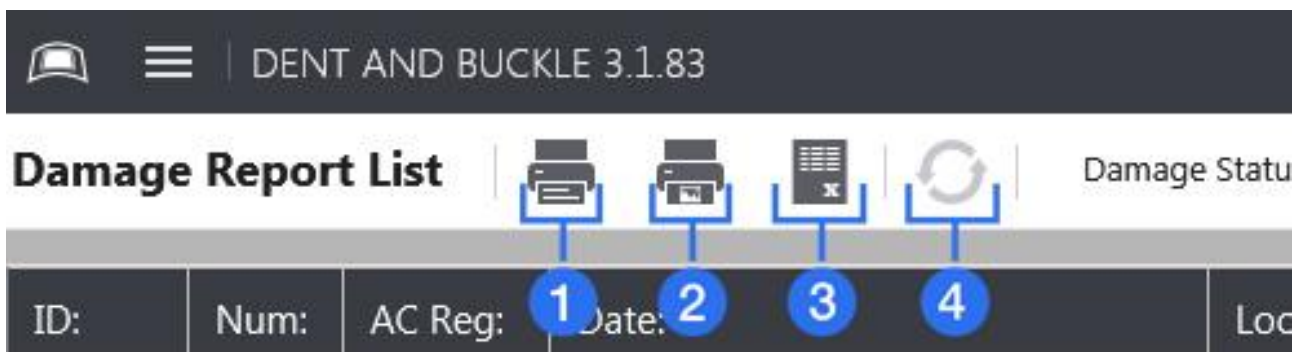
3.2. Dent and Buckle

The Dent and Buckle screen allows accurately and particularly to monitor damages and repairs on the aircraft fuselage. The system allows you to register, save and view damage and the history of their repairs. Specially designed graphics editor in visual form shows the defects location on the fuselage.

1. Dent and Buckle. To open a Dent and Buckle screen, click on the button.

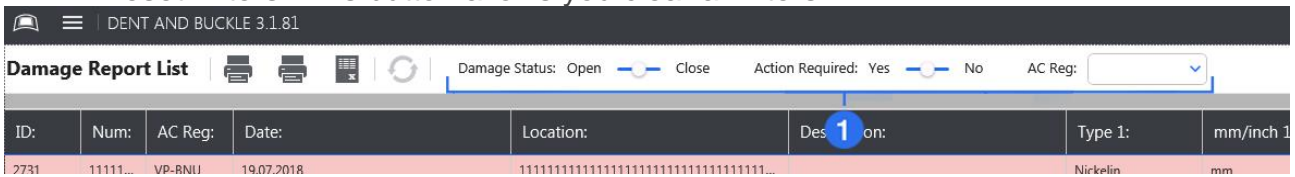


3.2.1. Overview



1. Open Print Report Dialog. Press this button to open Print Dialog.
2. Print Picture. Press this button if you want to print a picture.

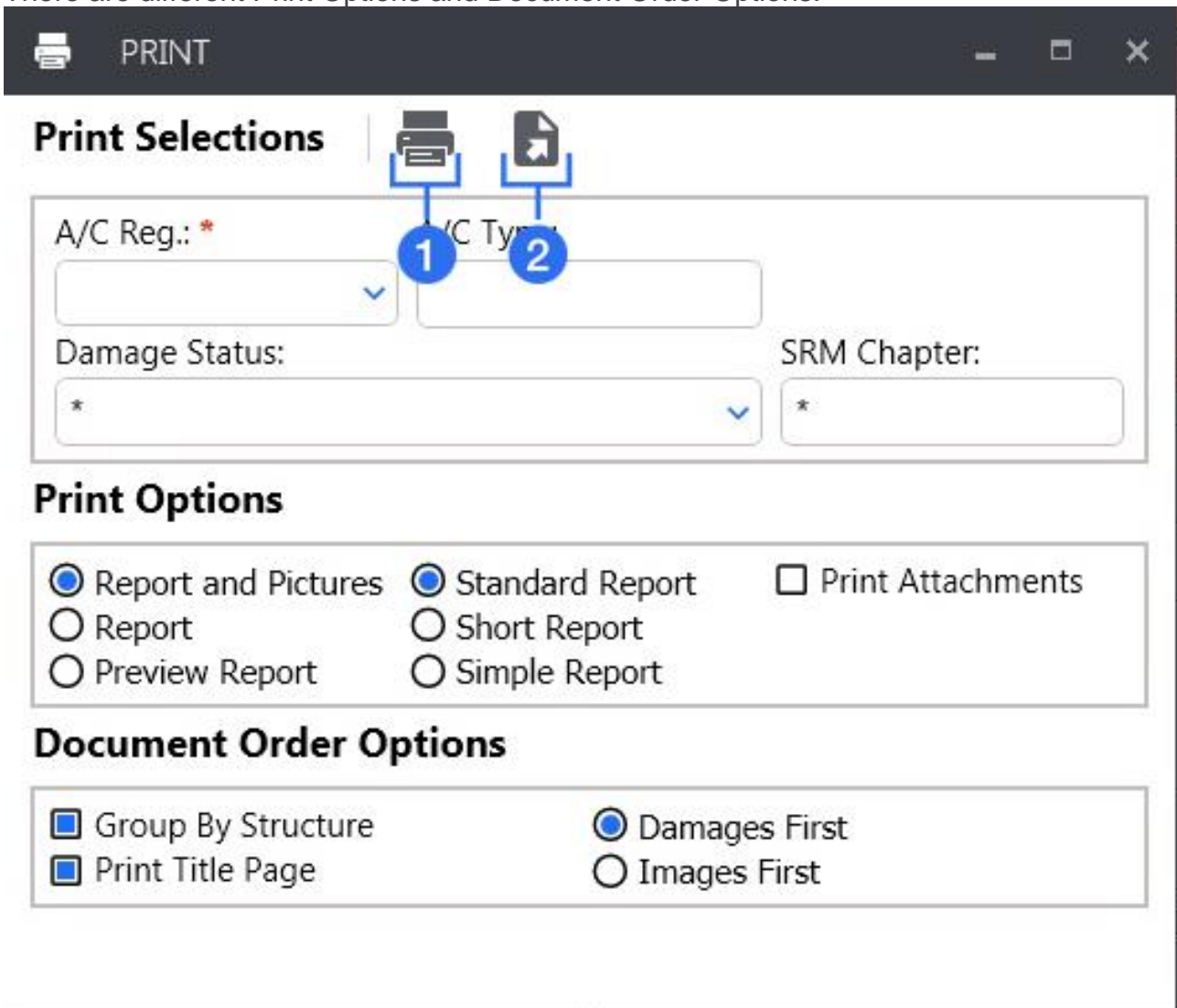
3. Export to Excel. This button allows you present information about damages in .xls format
4. Reset Filters. This button allows you clear all filters.



1. Filters. There are various filters for your convenience.

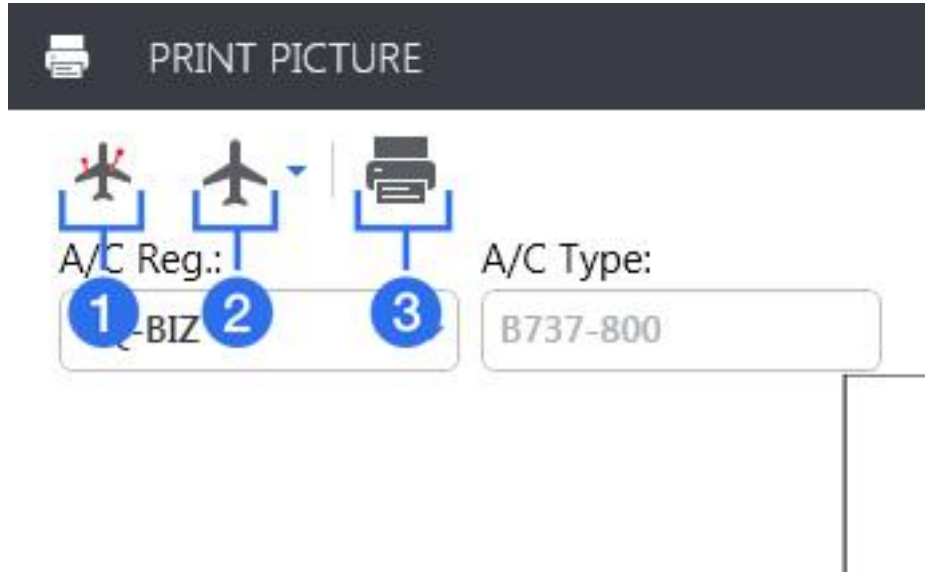
3.2.2. Print Dialog

There are different Print Options and Document Order Options.



1. Print Report.
2. Export Report. You can export the standard report in .pdf format, if you want. Preview Report is always in .pdf format!

3.2.3. Print Picture



1. All. If you press this button, you can view all damages on selected picture.
2. View. You can select necessary view.
3. Print.

3.2.4. Damage

This editor allows you add, change or delete the Damage Report and indicate A/C Reg., Damage type and its size, an evaluation of the damage etc.

Damage Actions Drawing Planning



1. Reset. This button allows you clear all input fields.
2. Add. To add a new damage report, fill in required fields and press this button.
3. Update. If you want save changes press this button.
4. Delete. If you want to delete the damage report press this button.
5. Attach documents. If you press this button, Attachment Editor will open.
6. Stringers, Stations Info.

3.2.5. Attachment Editor.

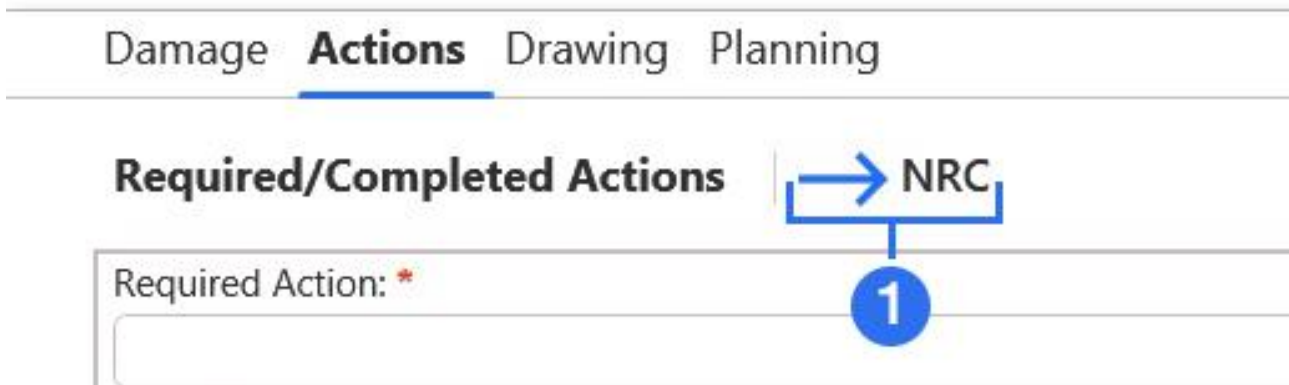
You can attach damage structure photos and documents links registration in this editor.



1. Reset. This button allows you clear all input fields.
2. Add. To add a new attachment, fill in required fields and press this button.
3. Delete. If you want to delete the attachment press this button.

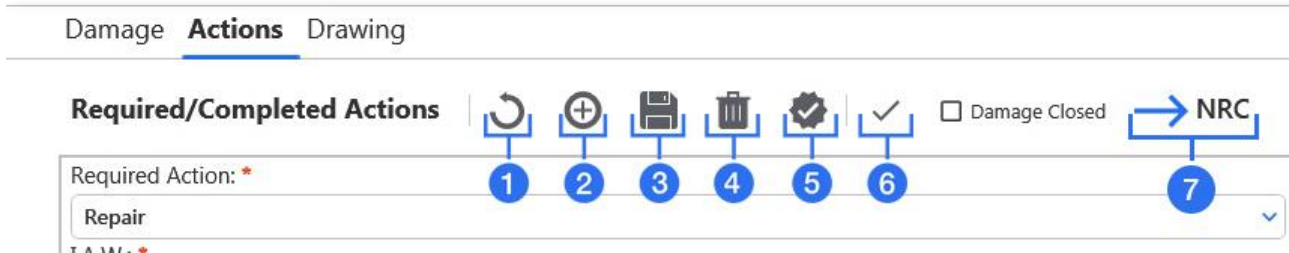
3.2.6. Actions

In some software versions, this tab looks like this:



1. Open NRC Editor. You can only open actions in NRC editor.

And in some versions of the software you can edit Actions. For this you must choose “Action Required” in Damage Report Editor otherwise the editor will be unavailable.



1. Reset. This button allows you clear all input fields.
2. Add. To add a new action, fill in required fields and press this button.
3. Update. If you want save changes press this button.
4. Delete. If you want to delete the action press this button.

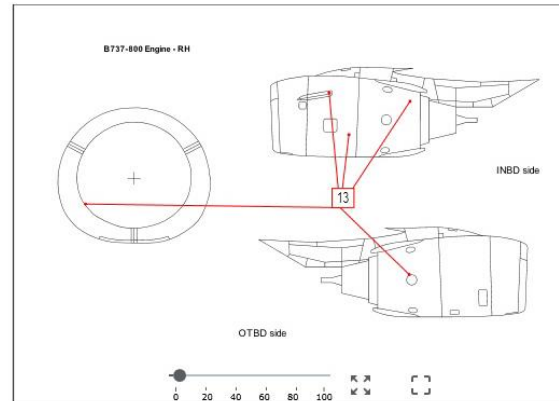
Completion Action. If you press this button, Completion Dialog will open. This editor allows you complete selected action.

5. Update Damage Status.
6. Open NRC Editor.

3.2.7. Drawing

You can view different parts of selected plane and their damages.

Damage Actions **Drawing** Planning



1. All. If you press this button, you can view all damages on selected picture.
2. Edit. If you press this button, Point Editor Dialog will open.
3. View. You can select necessary view.

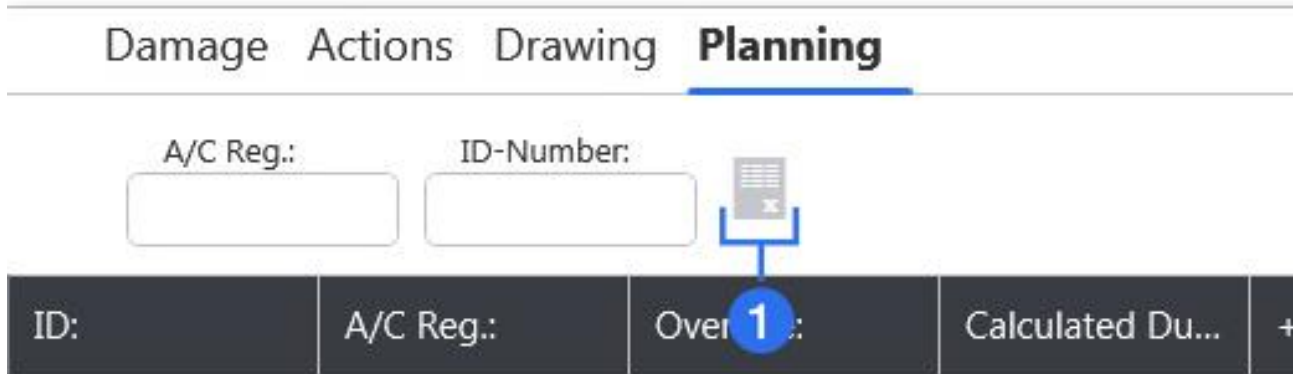
Point Editor Dialog.



1. All. If you press this button, you can view all damages on selected picture.
2. Clear. Press this button to view selected image without points.
3. Refresh. If you want to view points save in the database server press this button.
4. Update. If you want save changes press this button.
5. Delete. If you want to delete all points from the database server press this button.
6. View. You can select necessary view.
7. Instrument Cursor.
8. Instrument Point.
9. Instrument Callout Line.

3.2.8. Planning

It is available in some versions of this application!
You can view a list of tasks in NRC.

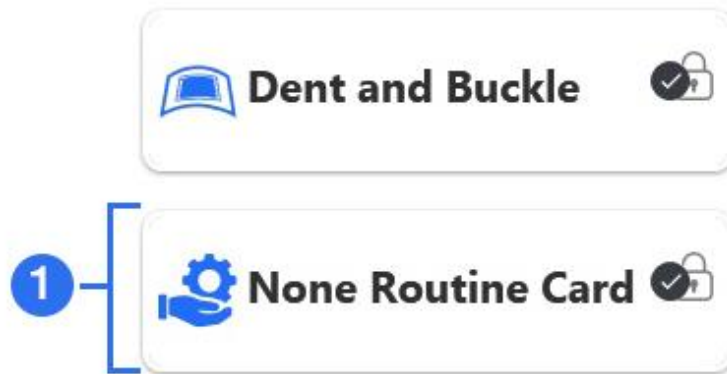


1. Export to Excel. This button allows you present the current planning information in .xls format.

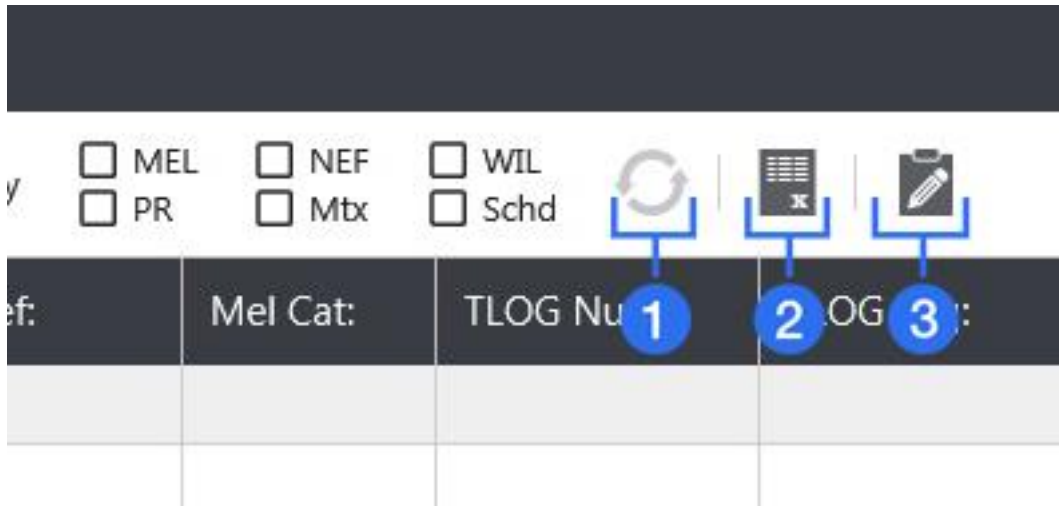
3.3. None Routine Card

None Routine Card section provides a detailed description of this module.

1. To open None Routine Card screen, click on the None Routine Card button.



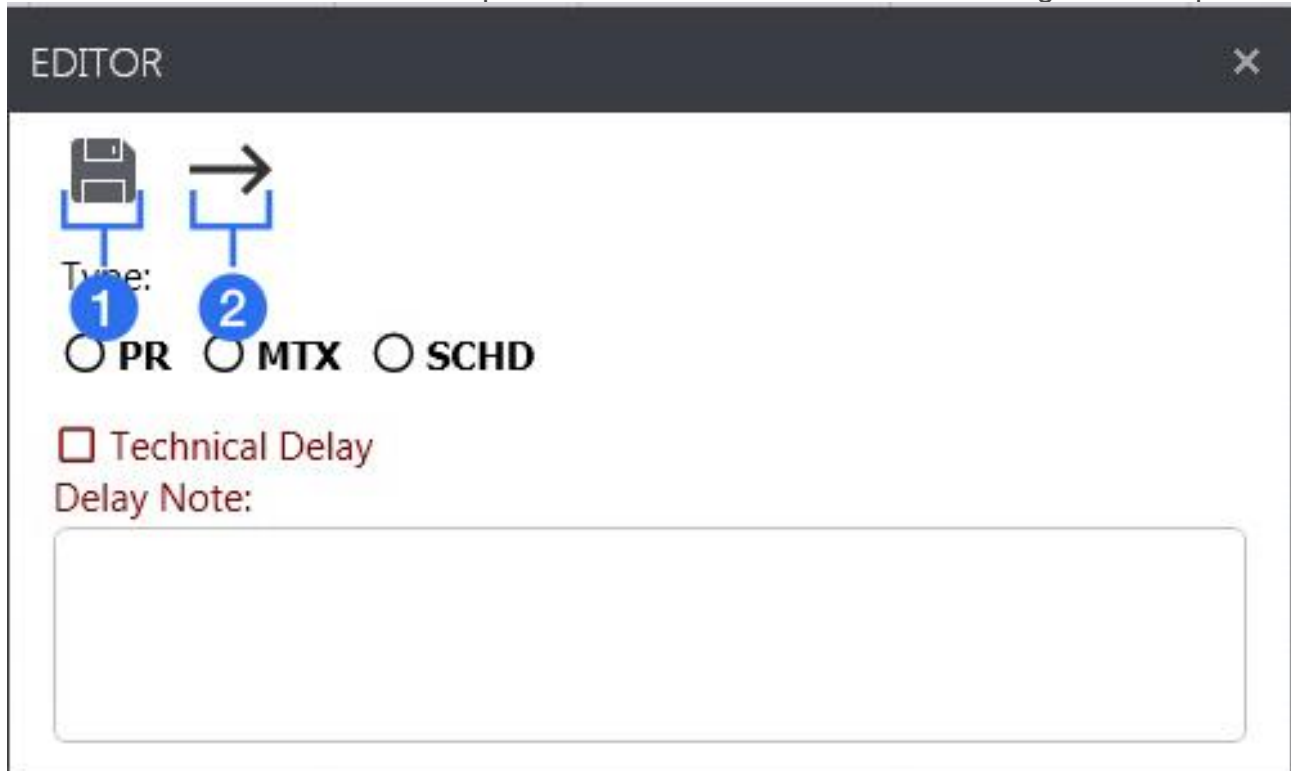
3.3.1. Overview



1. Filters.
2. Clear Filters. This button allows you clear all filters.
2. Export to Excel. This button allows you present the NRC information in .xls format.
3. Open Editor. This button allows you open NRC editor. For more information, open next chapter.

3.3.2. Editor on Main Page.

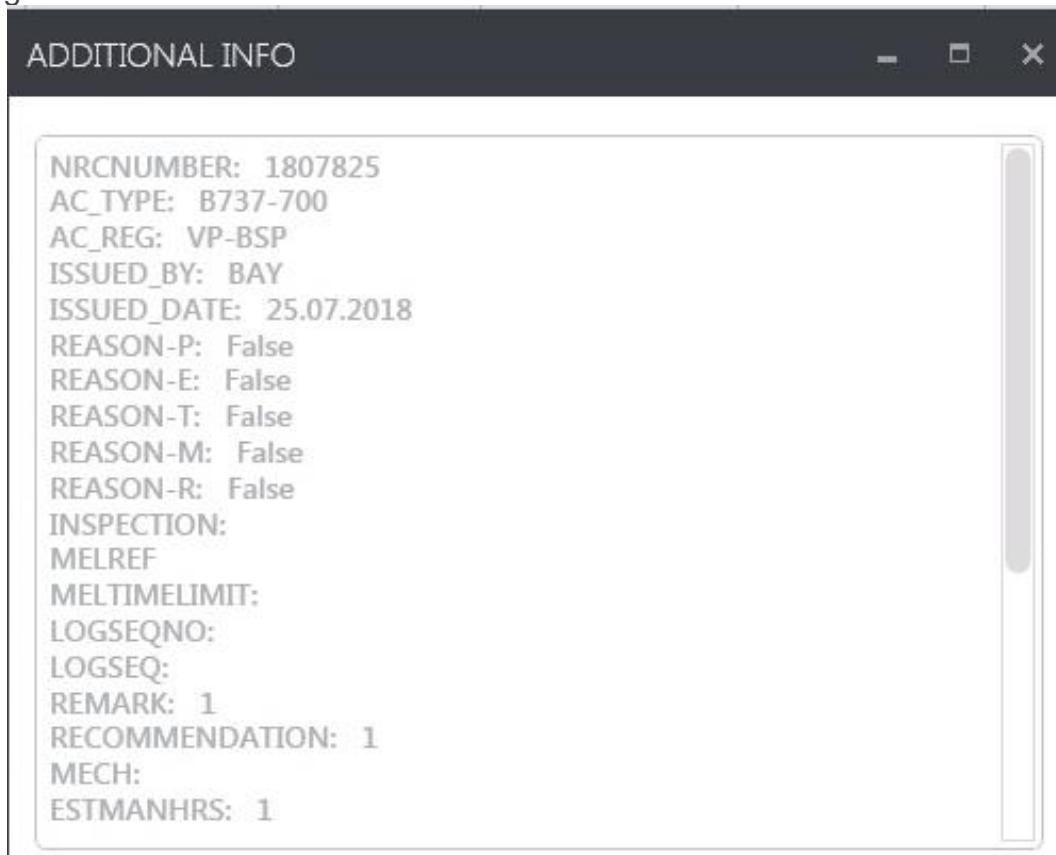
You can double click on NRC to update it. The window Editor on Main Page will be opened.



1. Update. If you want to save changes press this button.
2. To Editor. If you want to open selected NRC in Editor, press this button.

3.3.3. Additional Info.

Click Right Mouse to see details of the NRC.



3.3.4. Editor

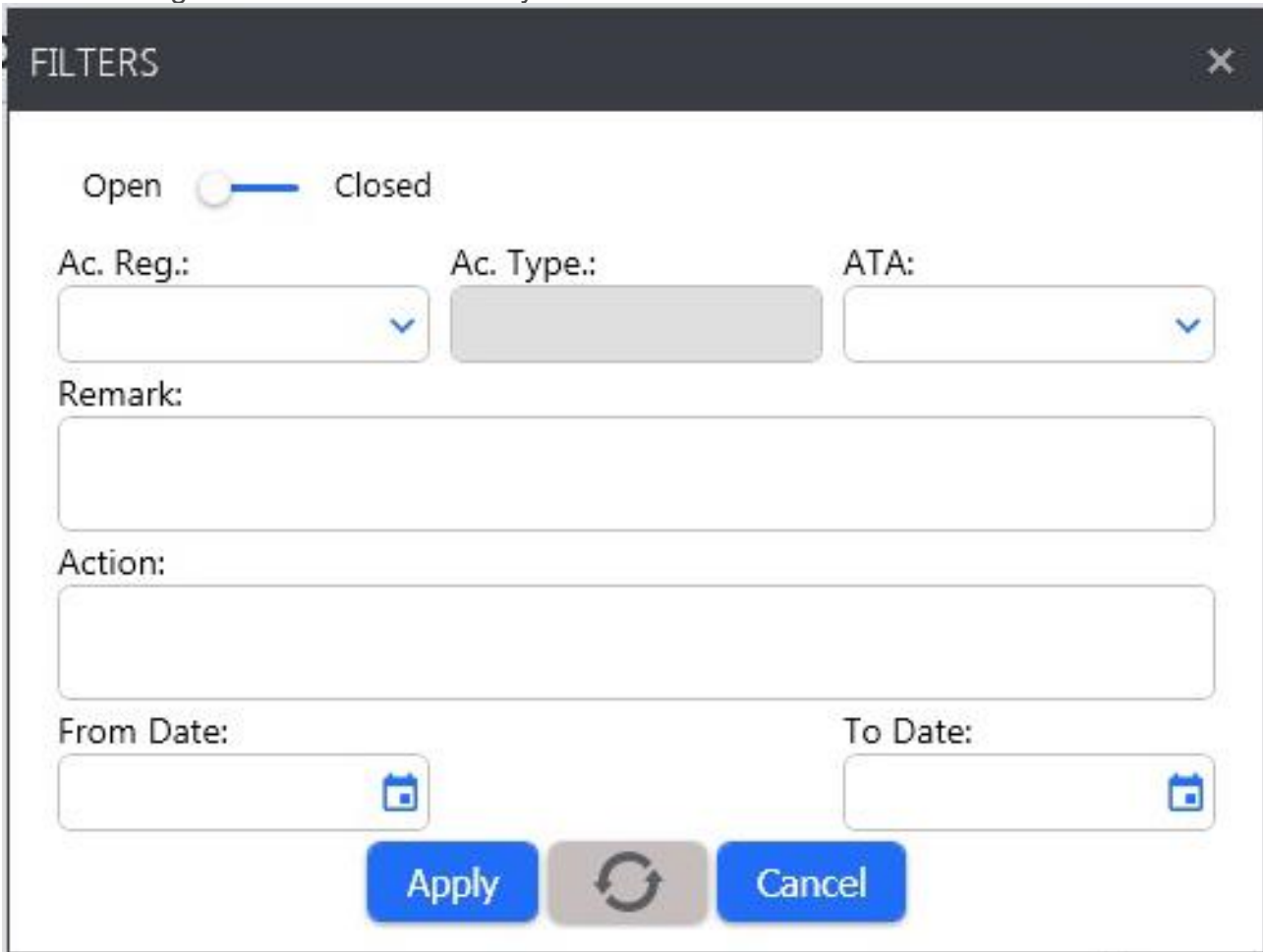


		Reference
A/C Req.: *	Issued hv: *	TI OG Seq. No:
<ol style="list-style-type: none"> 1. Go To Main Page. 2. Reset. This button allows you clear all input fields. 3. Add. To add a new NRC, fill in required fields and press this button. 4. Update. If you want to save changes press this button. 5. Delete. If you want to delete the NRC press this button. 6. Print. This button allows you get different reports: <ol style="list-style-type: none"> 1. NRC. 2. WIL Open. 3. WIL Closed. 		

4. DIL Open.
5. DIL Closed.
6. NEF Open.
7. NEF Closed.
7. Show Filters. If you press this button Filter Dialog will be opened.
8. Clear Filters.
9. To WO. This button saves the work order in the database.
10. NRC Reference Attachment.

3.3.5. Filters.

This Dialog was created for the convenience of the user, so he doesn't have to return to the Main Page to select the necessary NRC.



FILTERS [Close]

Open Closed

Ac. Reg.: [Dropdown] Ac. Type.: [Text] ATA: [Dropdown]

Remark: [Text]

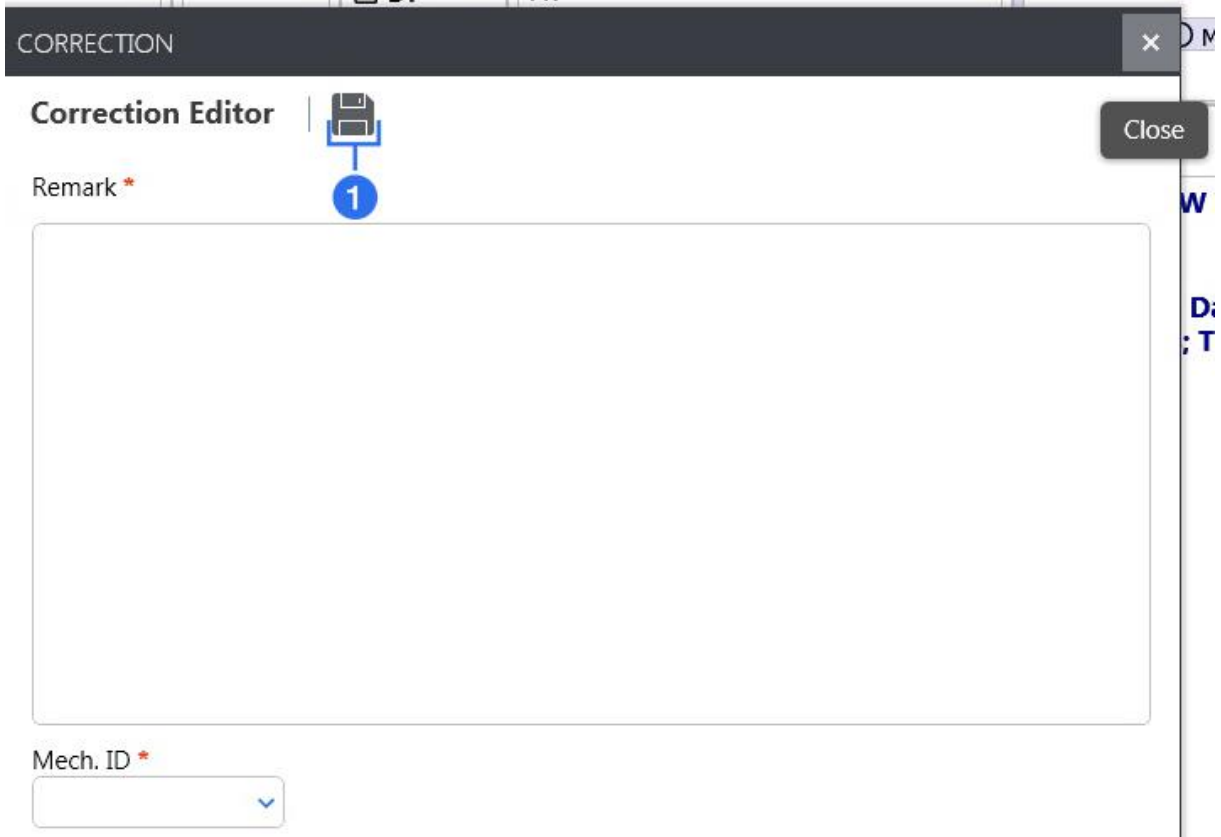
Action: [Text]

From Date: [Calendar] To Date: [Calendar]

[Apply] [Refresh] [Cancel]

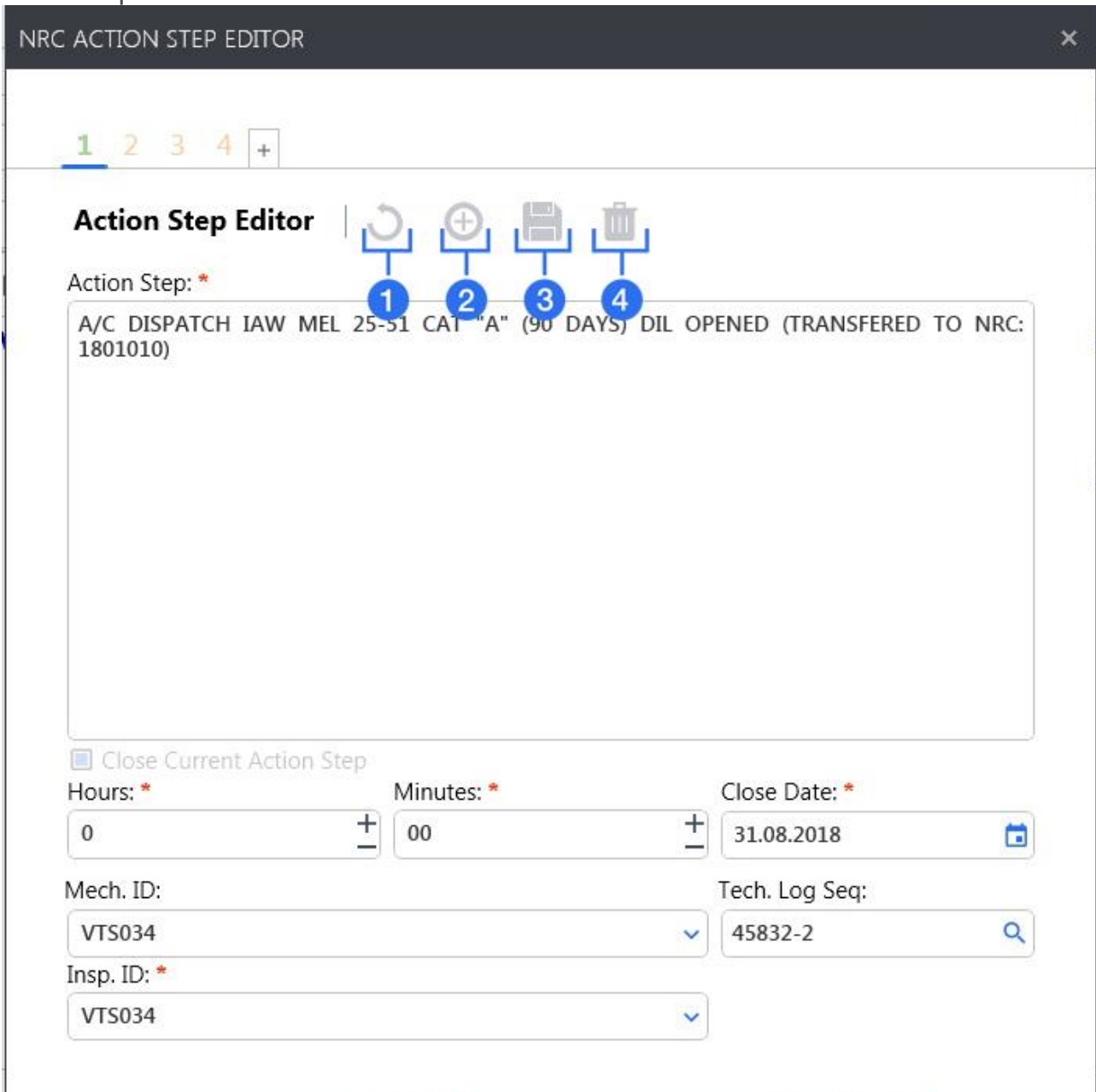
3.3.6. Correction.

You can correct Remark and Recommendation. For this press the button near title "Remark" or "Recommendation".



3.3.7. Edit Actions.

You can press this button if you want to edit selected step or press “+” if you want to create a new step.



- 3.1. Reset. This button allows you clear all input fields.
- 3.2. Add. To add a new Action Step, fill in required fields and press this button.
- 3.3. Update. If you want to save changes press this button.
- 3.4. Delete. If you want to delete the Action Step press this button.

3.3.8. Attachment Dialog.

You can attach different certificates, job instruction card, WO to the NRC.



- Date:** *
1. Reset. This button allows you clear all input fields.
 2. Add. To add a new Attachment, fill in required fields and press this button.
 3. Delete. If you want to delete the Attachment press this button.

How To's

4. How To's

How To's section contains step-by-step instructions for using the system.

4.1. Dent and Buckle

4.1.1. How to create the Damage?

1. Fill in all requirement fields. They are marked with a red asterisk.
2. If you want add actions later, specify it in the editor by clicking on the button "Action Required".
3. Press Add.

4.1.2. How to create Actions?

In some versions you can't create actions!

1. Select the damage for which actions are available.
2. Open "Actions".
3. Fill in all requirement fields. They are marked with a red asterisk.
4. Press "Add".

4.1.3. How to Update Damage Status?

1. Select the damage for which actions are available.
2. Open "Actions".
3. Press "Damage Closed"
4. Press the button "Update Damage Status"

4.1.4. How to Complete the Action?

1. Select the damage for which actions are available.
2. Open "Actions".
3. Select the action.
4. Press the button "Completion Action"
5. In Completion Dialog fill in all requirement fields. They are marked with a red asterisk.
6. Press "Update"

4.1.5. How to edit Drawing?

1. Select the damage.
2. Open "Drawing"
3. Select the view.
4. Press the button "Edit"

4.1.6. How to point more than 5 damage points?

Unfortunately, only 5 damage points are available.

4.1.7. How to save points?

1. In Point Editor Dialog select instrument 'point'
2. Make points.
3. Press the button "Update".

4.1.8. How to clear image without deleting points?

1. In Point Editor Dialog select instrument 'point'
2. Make points.
3. Press the button "Update".
4. Press the button "Clear".

4.2. NRC

4.2.1. How to create an NRC?

1. Open NRC.
2. Open Editor.
3. Press the button "Reset".
4. Fill in all requirement fields. They are marked with a red asterisk.
5. Press "Add".

4.2.2. How to create an NRC from Dent and Buckle?

1. Open Dent and Buckle.
2. Select the Damage for which actions are available.
3. Open "Actions"
4. Press "to NRC"

4.2.3. How to create Action Step?

1. Create an NRC.
2. Now you can create the action steps. Press the plus near the title "Actions".
3. Fill in all requirement fields. They are marked with a red asterisk.
4. Press "Add".

4.2.4. How to close Action Step?

1. Create an action step. You can close only an existing action step.
2. Press "Close Current Action Step".
3. Fill in all requirement fields. They are marked with a red asterisk.
4. Press "Update"

4.2.5. How to make corrections?

1. Select the necessary NRC.
2. Open Editor.
3. Press the button "Correction" near the titles "Remark" or "Recommendation".
4. Fill in all requirement fields. They are marked with a red asterisk.
5. Press "Edit".

4.2.6. How to close NRC?

1. Select the necessary NRC.
2. Open Editor.
3. Select Close Date.
4. The field “Mech. (ID/sign)” is required now. Fill in it.
5. Press “Update”

4.2.7. How to re-open NRC?

1. Select the closed NRC.
2. Open Editor.
3. Press the button “Re-Open Current NRC Record”.
4. Fill in all requirement fields. They are marked with a red asterisk.
5. Press “Login”.